ORDER NO. SD8004-1738

Service Manual

Stereo Integrated Amplifier

SU-2700

[EG],[XE],[EB]

Areas

* [EG] is available in European.
* [XE] is available in United Kingdom.
* [EB] is available in Belgium.

TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

[DIN 45 500]

AMPLIFIER SECTION

20 Hz~20 kHz continuous power output	
both channels driven	2 × 25W (8Ω)
40 Hz~16 kHz continuous power output	
both channels driven	2 × 25W (4Ω)
	2 × 25W (8Ω)
1 kHz continuous power output	
both channels driven	2 × 27W (4Ω)
	2 × 27W (8Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.08% (8Ω)
rated power at 40 Hz~16 kHz	0.15% (4Ω)
	0.08% (8Ω)
rated power at 1 kHz	0.08% (4Ω)
	0.08% (8Ω)
half power at 20 Hz~20 kHz	0.05% (8Ω)
half power at 1 kHz	0.015% (8Ω)
−26 dB power at 1 kHz	0.15% (4Ω)
50 mW power at 1 kHz	0.2% (4Ω)
Intermodulation distortion	
rated power at 250 Hz: 8 kHz=4:1, 4Ω	0.15%
rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.08%
Power bandwidth	
both channels driven, −3 dB	10 Hz~25 kHz (4Ω)
	10 Hz~30 kHz (8Ω)
Residual hum and noise	0.65 mV
Damping factor	25 (4Ω), 50 (8Ω)
Input sensitivity and impedance	
PHONO	2.5 mV/47kΩ
TUNER, AUX	150 mV/27kΩ
TAPE 1 REC/PLAY	180 mV/33kΩ
TAPE 2	150 mV/27kΩ
PHONO maximum input voltage (1 kHz, RMS)	150 mV
S/N	
rated power (4Ω)	
PHONO	71 dB (IHF, A: 71 dB)
TUNER, AUX	84 dB (IHF, A: 94 dB)
−26 dB power (4Ω)	
PHONO	63 dB
TUNER, AUX	65 dB
50 mW power (4Ω)	
PHONO	62 dB
TUNER, AUX	64 dB
Frequency response	
PHONO	RIAA standard curve
	±1.0 dB (30 Hz~15 kHz)
TUNER, AUX, TAPE	10 Hz~50 kHz (−1 dB)
	±0.5 dB (20 Hz~20 kHz)
Tone controls	
BASS	50 Hz, +10 dB~ −10 dB
TREBLE	20 kHz, +10 dB~ −10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Output voltage and impedance	
REC OUT	150 mV
REC/PLAY	30 mV/82kΩ
Channel balance, AUX 250 Hz~6,300 Hz	±1.5 dB
Channel separation, AUX 1 kHz	50 dB
Headphones output level and impedance	330 mV/330Ω
Load impedance	
MAIN or REMOTE	4Ω~16Ω
MAIN and REMOTE	8Ω~16Ω

GENERAL

Power consumption	310W
Power supply	AC 50 Hz/60 Hz, 110V/120V/220V/240V
Dimensions (W×H×D)	410 × 142 × 219 mm
	(16-5/32" × 5-19/32" × 8-5/8")
Weight	5.0 kg
	(11.0 lb.)

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

J-2700

TECHNISCHE DATEN [DIN 45 500] Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

VERSTÄKERTEIL

Dauerton-Ausgangsleistung bei 20 Hz ~ 20 kHz	
beide Kanäle ausgesteuert	2 × 25W (8 Ω)
Dauerton-Ausgangsleistung bei 40 Hz ~ 16 kHz	
beide Kanäle ausgesteuert	2 × 25W (4 Ω)
	2 × 25W (8 Ω)
Dauerton-Ausgangsleistung bei 1 kHz	
beide Kanäle ausgesteuert	2 × 27W (4 Ω)
	2 × 27W (8 Ω)
Gesamtklirrfaktor	
Nennleistung bei 20 Hz ~ 20 kHz	0,08% (8 Ω)
Nennleistung bei 40 Hz ~ 16 kHz	0,15% (4 Ω)
	0,08% (8 Ω)
Nennleistung bei 1 kHz	0,08% (4 Ω)
	0,08% (8 Ω)
halbe Nennleistung bei 20 Hz ~ 20 kHz	0,05% (8 Ω)
halbe Nennleistung bei 1 kHz	0,015% (8 Ω)
−26 dB Leistung bei 1 kHz	0,15% (4 Ω)
50 mW Leistung bei 1 kHz	0,2% (4 Ω)
Intermodulationsfaktor	
Nennleistung bei 250 Hz: 8 kHz = 4:1, 4 Ω	0,15%
Nennleistung bei 60 Hz: 7 kHz = 4:1, nach SMPTE, 8 Ω	0,08%
Leistungsbandbreite beide Kanäle ausgesteuert bei −3 dB	
	10 Hz ~ 25 kHz (4 Ω)
	10 Hz ~ 30 kHz (8 Ω)
Restbrumm und Geräusch	0,65 mV
Dämpfungsfaktor	25 (4 Ω), 50 (8 Ω)
Eingangsempfindlichkeit und -impedanz	
Phono	2,5 mV/47 kΩ
Tuner, Aux	150 mV/27 kΩ
Tape 1 Aufnahme/Wiedergabe (TAPE 1 REC/PLAY)	180 mV/33 kΩ
Tape 2	150 mV/27 kΩ
Maximale TA-Eingangsspannung (1 kHz, eff.)	150 mV
Geräuschabstand	
Nennleistung (4 Ω)	
Phono	71 dB (nach IHF, A: 71 dB)
Tuner, Aux	84 dB (nach IHF, A: 94 dB)
−26 dB Leistung (4 Ω)	
Phono	63 dB
Tuner, Aux	65 dB
50 mW Leistung (4 Ω)	
Phono	62 dB
Tuner, Aux	64 dB
Frequenzgang Phono	RIAA-Standardkurve ±1,0 dB (30 Hz ~ 15 kHz)
Tuner Aux, Tape	10 Hz ~ 50 kHz(−1 dB) ±0,5 dB (20 Hz ~ 20 kHz)
Klangregler	
Baßregler (BASS)	50 Hz, +10 dB ~ −10 dB
Höhenregler (TREBLE)	20 kHz, +10 dB ~ −10 dB
Gehörrichtige Lautstärkekorrektur (Loudness)	
(bei −30 dB Ausgangsleistung)	50 Hz, +9 dB
Ausgangsspannung und -impedanz	
Aufnahmeausgang (REC OUT)	150 mV
Aufnahme/Wiedergabe (REC/PLAY)	30 mV/82 kΩ
Kanalabweichung (Aux, 250 Hz ~ 6300 Hz)	±1,5 dB
Übersprechdämpfung (Aux, 1 kHz)	50 dB
Kopfhörerpegel und -impedanz	330 mV/330Ω
Lautsprecherimpedanz	
MAIN oder REMOTE	4 Ω ~ 16 Ω
MAIN und REMOTE	8 Ω ~ 16 Ω

ALLGEMEINE DATEN

Leistungsaufnahme	310 W
Netzspannung	Wechselstrom 50 Hz/60 Hz, 110V/120V/220V/240V
Abmessungen (B×H×T)	410 × 142 × 219 mm
Gewicht	5,0 kg

CARACTERISTIQUES TECHIQUES [DIN 45 500] Sujet à changement sans préaris.

SECTION AMPLIFICATEUR

Puissance de sortie continue de 20 Hz~20 kHz,	
les deux canaux en circuit	2 × 25W (8Ω)
Puissance de sortie continue de 40 Hz~16 kHz,	
les deux canaux en circuit	2 × 25W (4Ω)
	2 × 25W (8Ω)
Puissance de sortie continue à 1 kHz	
les deux canaux en circuit	2 × 27W (4Ω)
	2 × 27W (8Ω)
Distorsion harmonique totale	
à puissance nominale (20 Hz~20 kHz)	0,08% (8Ω)
à puissance nominale (40 Hz~16 kHz)	0,15% (4Ω)
	0,08% (8Ω)
à puissance nominale (1 kHz)	0,08% (4Ω)
	0,08% (8Ω)
à demi-puissance (20 Hz~20 kHz)	0,05% (8Ω)
à demi-puissance (1 kHz)	0,015% (8Ω)
puissance de −26 dB à 1 kHz	0,15% (4Ω)
puissance de 50 mW à 1 kHz	0,2% (4Ω)
Distorsion d'intermodulation	
à puissance nominale à 250 Hz: 8 kHz=4:1, 4Ω	0,15%
à puissance nominale à 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0,08%
Réponse de fréquences	
les deux canaux en circuit, −3 dB	10 Hz~25 kHz (4Ω)
	10 Hz~30 kHz (8Ω)
Bruit et ronflement résiduels	0,65 mV
Coefficient d'amortissement	25 (4Ω), 50 (8Ω)
Sensibilité et impédance d'entrée	
PHONO	2,5 mV/47kΩ
SYNTONISATEUR, AUX (TUNER, AUX)	150 mV/27kΩ
BANDE 1, ENREGISTREMENT/LECTURE (TAPE 1 REC/PLAY)	180 mV/33kΩ
BANDE 2 (TAPE 2)	150 mV/27kΩ
PHONO (tension d'entrée maximum, 1 kHz RMS)	150 mV
Signal/Bruit	
à puissance nominale (4Ω)	
PHONO	71 dB (IHF, A: 71 dB)
SYNTONISATEUR, AUX (TUNER, AUX)	84 dB (IHF, A: 94 dB)
puissance de −26 dB (4Ω) PHONO	63 dB
SYNTONISATEUR, AUX (TUNER, AUX)	65 dB
puissance de 50 mW (4Ω) PHONO	62 dB
SYNTONISATEUR, AUX (TUNER, AUX)	64 dB
Réponse de fréquence PHONO	Courbe nominale RIAA ±1,0 dB (30 Hz~15 kHz)
SYNTONISATEUR, AUX, BANDE (TUNER, AUX, TAPE)	10 Hz~50 kHz (−1 dB) ±0,5 dB (20 Hz~20 kHz)
Réglage de la tonalité	
BASSES (BASS)	50 Hz, +10 dB~ −10 dB
AIGUS (TREBLE)	20 kHz, +10 dB~ −10 dB
Compensateur physiologique (volume à −30 dB)	50 Hz, +9 dB
Tension de sortie et impédance	
SORTIE ENREGISTREMENT (REC OUT)	150 mV
ENREGISTREMENT/LECTURE (REC/PLAY)	30 mV/82kΩ
Equilibrage des canaux, AUX 250 Hz~6 300 Hz	±1,5 dB
Séparation des canaux, AUX 1 kHz	50 dB
Niveau de sortie des casques et impédance	330 mV/330Ω
Impédance de charge	
PRINCIPALE ou AUXILIAIRE (MAIN or REMOTE)	4Ω~16Ω
PRINCIPALE et AUXILIAIRE (MAIN and REMOTE)	8Ω~16Ω

DIVERS

Consommation	310W
Alimentation	CA 50 Hz/60 Hz, 110V/120V/220V/240V
Dimensions (L×H×Pr)	410 × 142 × 219 mm (16-5/32" × 5-19/32" × 8-5/8")
Poids	5,0 kg

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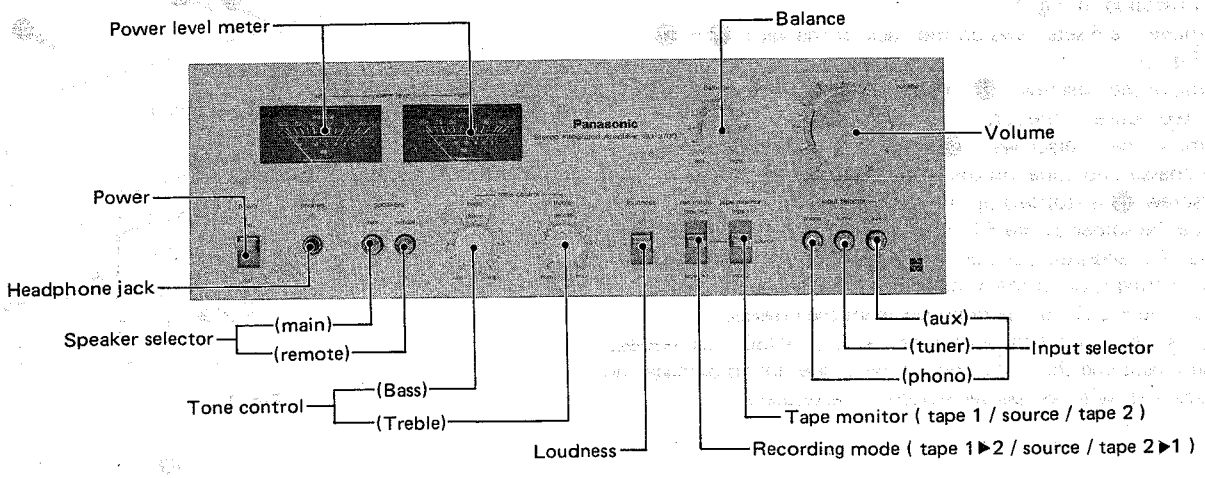
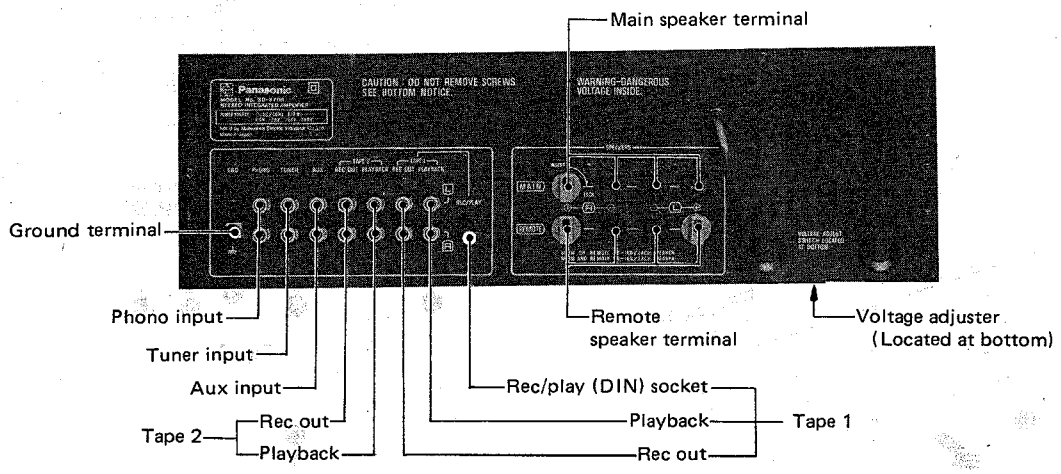
■ LOCATION OF CONTROLS

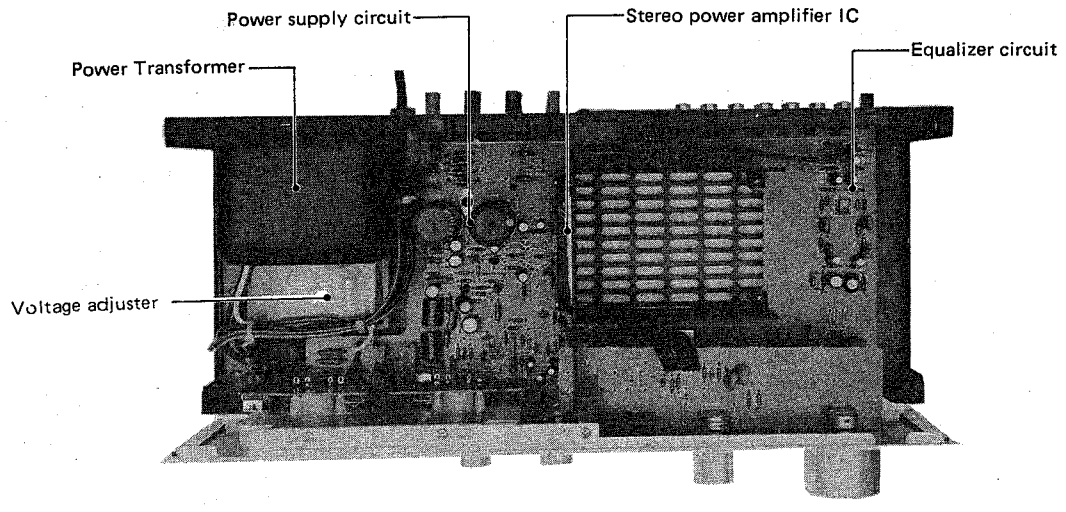
● Front side view



● Rear side view



● Inside view



HOW TO REMOVE P.C.B.

1. Remove the 6 cabinet setscrews (❶ ~ ❻ in Fig. 1).
2. Lift up the cabinet, slightly pulling its both ends outwards as illustrated in Fig. 1.
3. Remove the 5 setscrews on the back of the set (❼ ~ ⓫ in Fig. 2).
4. Remove the setscrew (⓬ in Fig. 2) which fastens the printed board in the set.
5. Remove the 2 setscrews (⓭ , ⓯ in Fig. 3) which fasten the chassis and panel on the front panel bottom.
6. Setscrew ⓬ is stopped on the chassis lug.
   Since the solder of the P.C.B. is caught by the lug, hold the heat sink, and pull out the front panel in the direction of Ⓑ while lifting it up in the direction of Ⓐ as shown in Fig. 3.
7. Thus, the P.C.B. can be removed from the chassis.
   In this case, cut off the lead wire clamp (SHR301) as needed.
8. When installing the circuit board, take care not to damage the knobs and switches (power switch in particular).

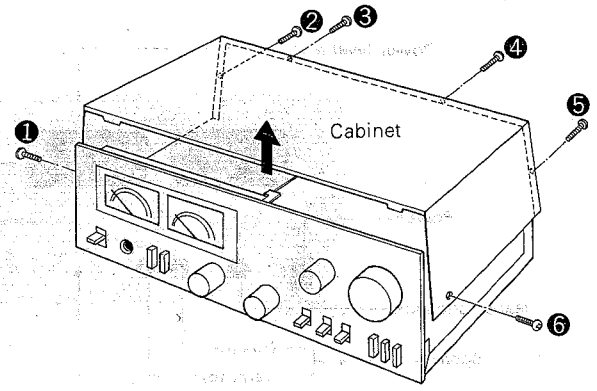


Fig. 1

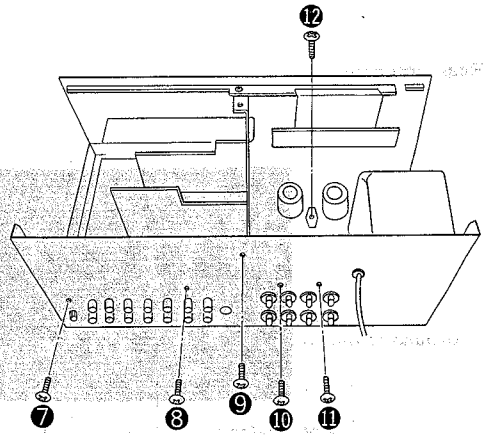


Fig. 2

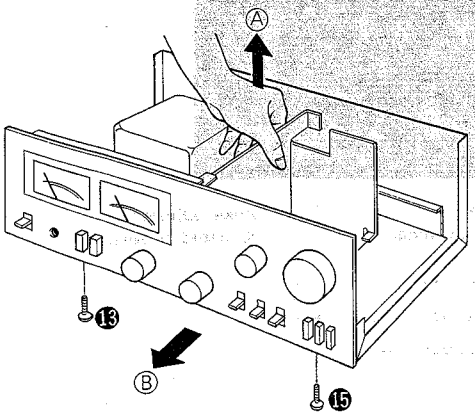


Fig. 3

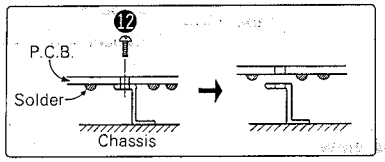


Fig. 4

■ REPLACEMENT PARTS LIST ····· Cabinet and Chassis Parts

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.
3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SYW253	Panel, Front Ass'y
2		SHR5093	Rubber, Front Panel
3		SHS6111	Fiber, Front Panel
4		SBC279	Button, Push Switches
5		SBN909–3	Knob, Bass, Treble & Balance
6		SNB911–3	Knob, Volume
7		SHS3253	Fiber
8		SHR5089	Cover, Lever Switch Knobs
9		SBD31	Knob, Lever Switches
10		XCJ6P21B–A1	Jack, Headphones
11		SKC390K1	Cabinet
12		SJF4813	Terminal, Speaker
13		SJF3045N	Terminal, Input
14		SMX331	Cover, Fuse
15		SJT347	Holder, Fuse
16		SHG6105	Rubber, Chassis (Voltage Adjuster)
18		SKL245	Foot
19		SGP2230E	Rear Panel
20 [XE] only		SFSR5N4	Bushing, AC Cord
20 [Other Areas]		SFSR4N4	Bushing, AC Cord
21 [XE] only		**QFC1205M**	AC Cord, Power Source
21 [Other Areas]		**SJA88**	AC Cord, Power Source (W/Plug)

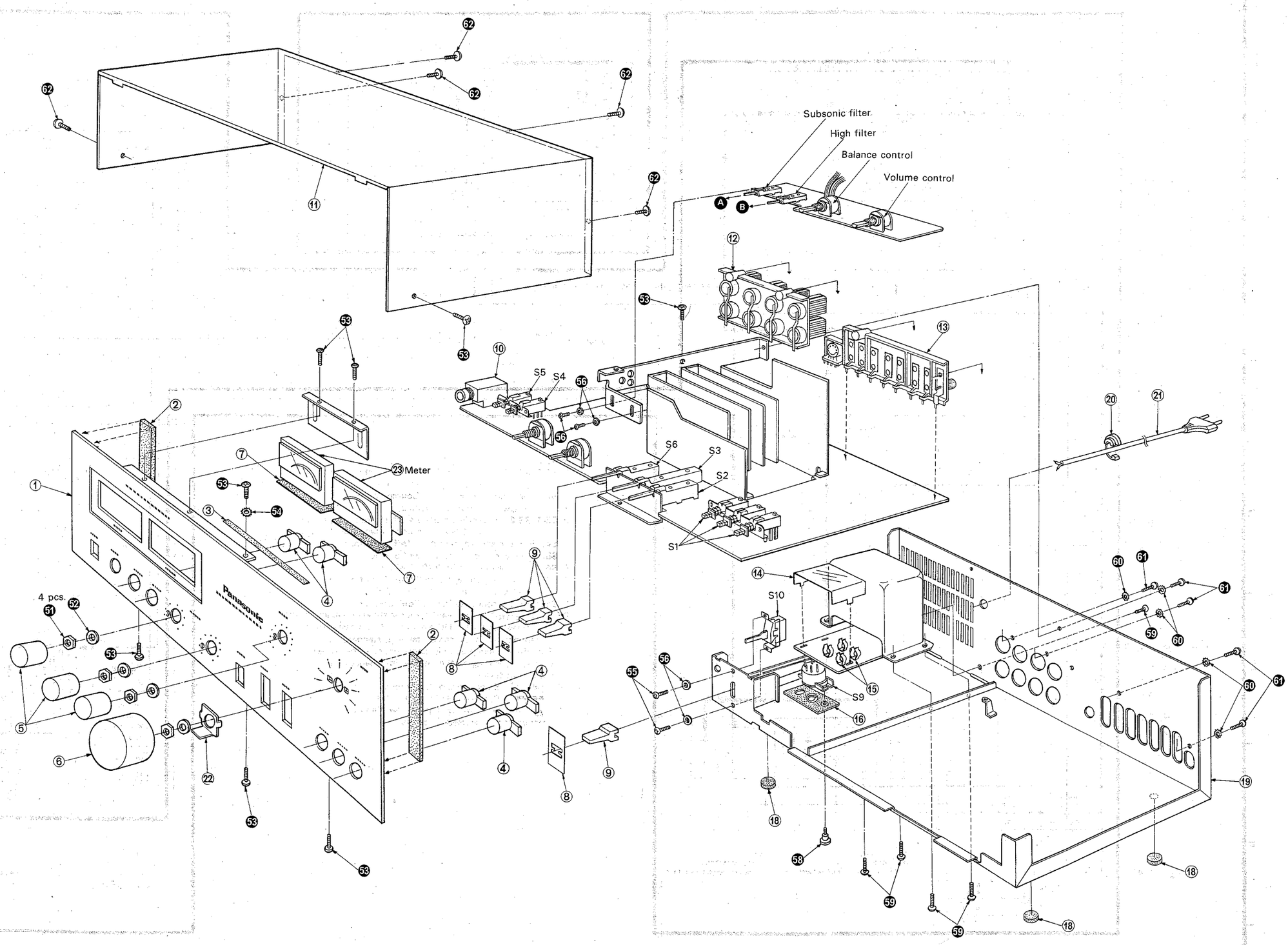
Ref. No.		Part No.	Part Name & Description
22		SMN1707	Bracket, Volume Shaft
23		SSM159N	Meter (with/Meter Lamp)
NUTS, SCREWS and WASHERS			
㊶		**XNS8**	Nut, M8 (Volume, Balance, Bass, Treble)
㊷		**XWV8**	Washer, ϕ8
㊸		**XTB3+8BFN**	Screw, Tapping, ⊕ 3 x 8 (Front Panel)
㊺		**XSN3+6S**	Screw, ⊕ 3 x 6 (Power Switch)
㊻		**XWA3B**	Washer, Spring, ϕ3
㊽		SHD3X23F	Screw, M3 (Voltage Adjuster)
㊾		**XTB4+10BFZ**	Screw, Tapping, ⊕4x10(Power Transforme
㊿		**XWC3B**	Washer, External Toothed Lock, ϕ3
(61)		**XTB3+8BFZ**	Screw, Tapping, ⊕3 x 8
(62)		**XTB3+8BFZ**	Screw, Tapping, ⊕3 x 8 (Cabinet)
PACKING PARTS			
P1		SPP659	Polyethylene Bag
P2		SPS2559	Pad, Left Side
P3		SPS2561–2	Pad, Right Side
P4		SPS2711	Pad, Corner
P5		SPG2599	Carbon Box
P6 [XE] only		SQF10433	Instructions Book, Printed Matter
P6 [Other Areas]		SQF10435	Instructions Book, Printed Matter

Areas

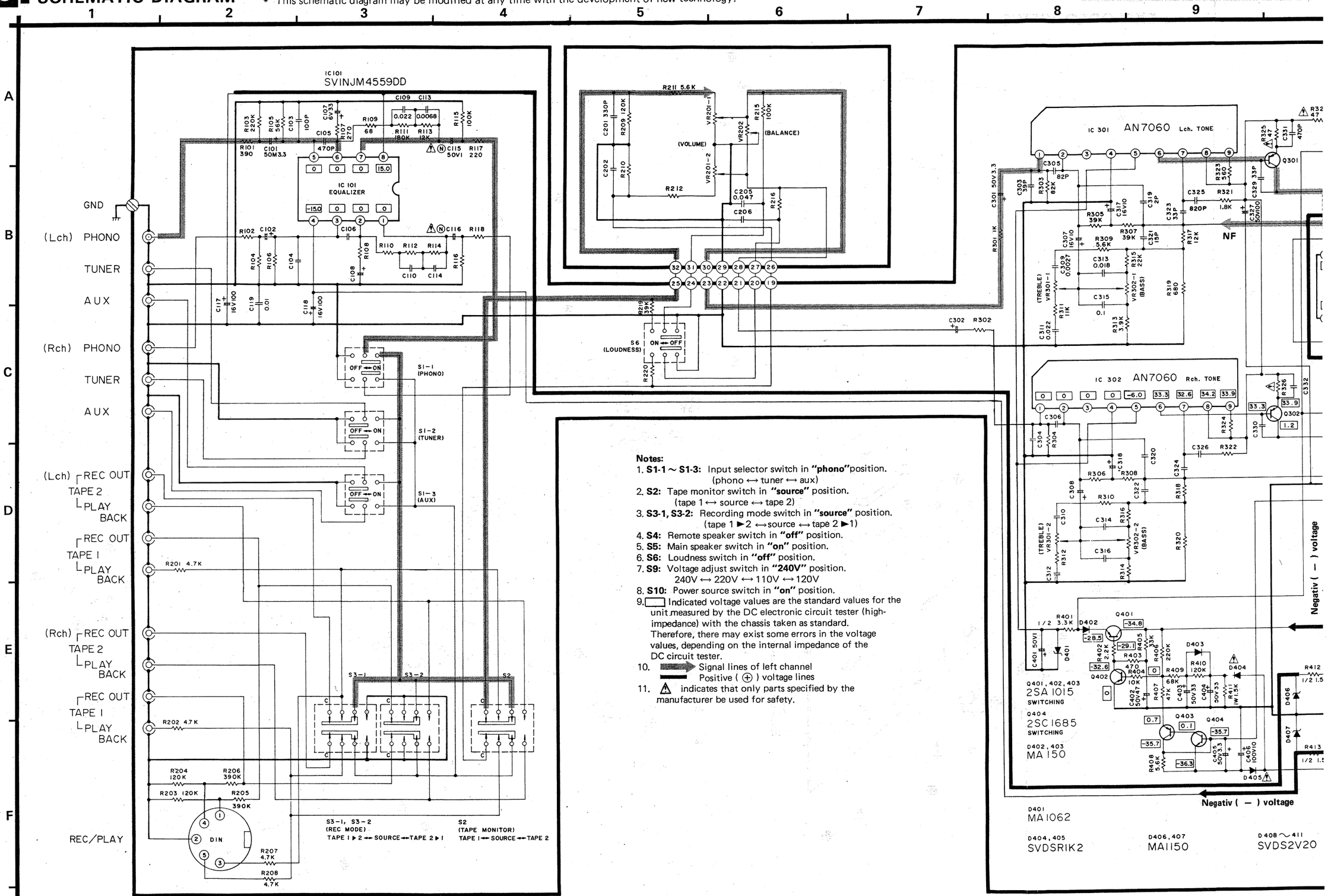
* [EG] is available in European.
* [XE] is available in United Kingdom.
* [EB] is available in Belgium.

SU-2700

■ EXPLODED VIEWS



* This schematic diagram may be modified at any time with the development of new technology.

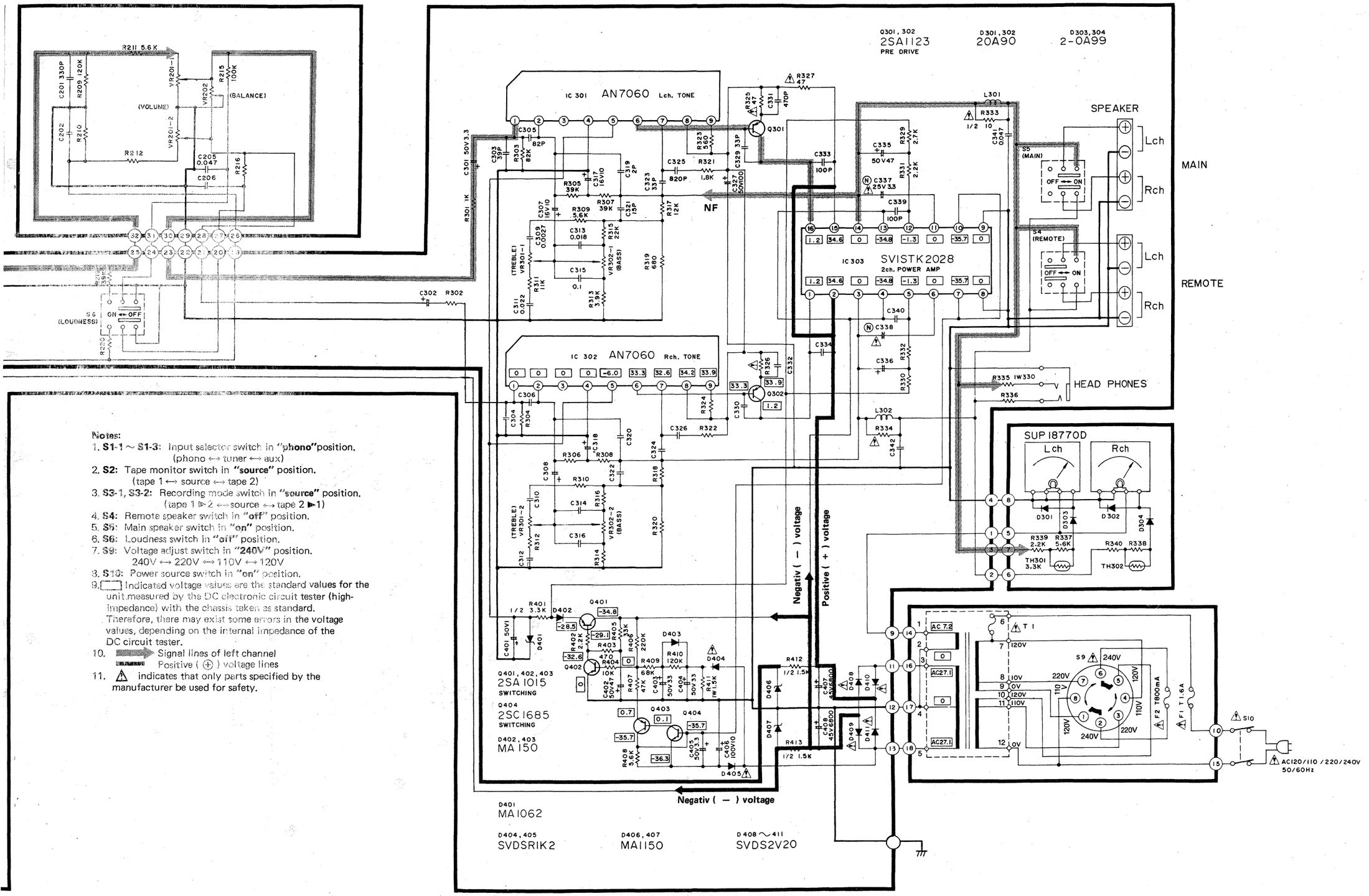


Notes:

1. **S1-1 ~ S1-3:** Input selector switch in **"phono"** position. (phono ↔ tuner ↔ aux)
2. **S2:** Tape monitor switch in **"source"** position. (tape 1 ↔ source ↔ tape 2)
3. **S3-1, S3-2:** Recording mode switch in **"source"** position. (tape 1 ▶ 2 ↔ source ↔ tape 2 ▶ 1)
4. **S4:** Remote speaker switch in **"off"** position.
5. **S5:** Main speaker switch in **"on"** position.
6. **S6:** Loudness switch in **"off"** position.
7. **S9:** Voltage adjust switch in **"240V"** position. 240V ↔ 220V ↔ 110V ↔ 120V
8. **S10:** Power source switch in **"on"** position.
9. ☐ Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
10. ▬▶ Signal lines of left channel
    ▬ Positive (⊕) voltage lines
11. ⚠ indicates that only parts specified by the manufacturer be used for safety.

n the development of new technology.

5 6 7 8 9 10 11 12 13



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   (phono ⇔ tuner ⇔ aux)
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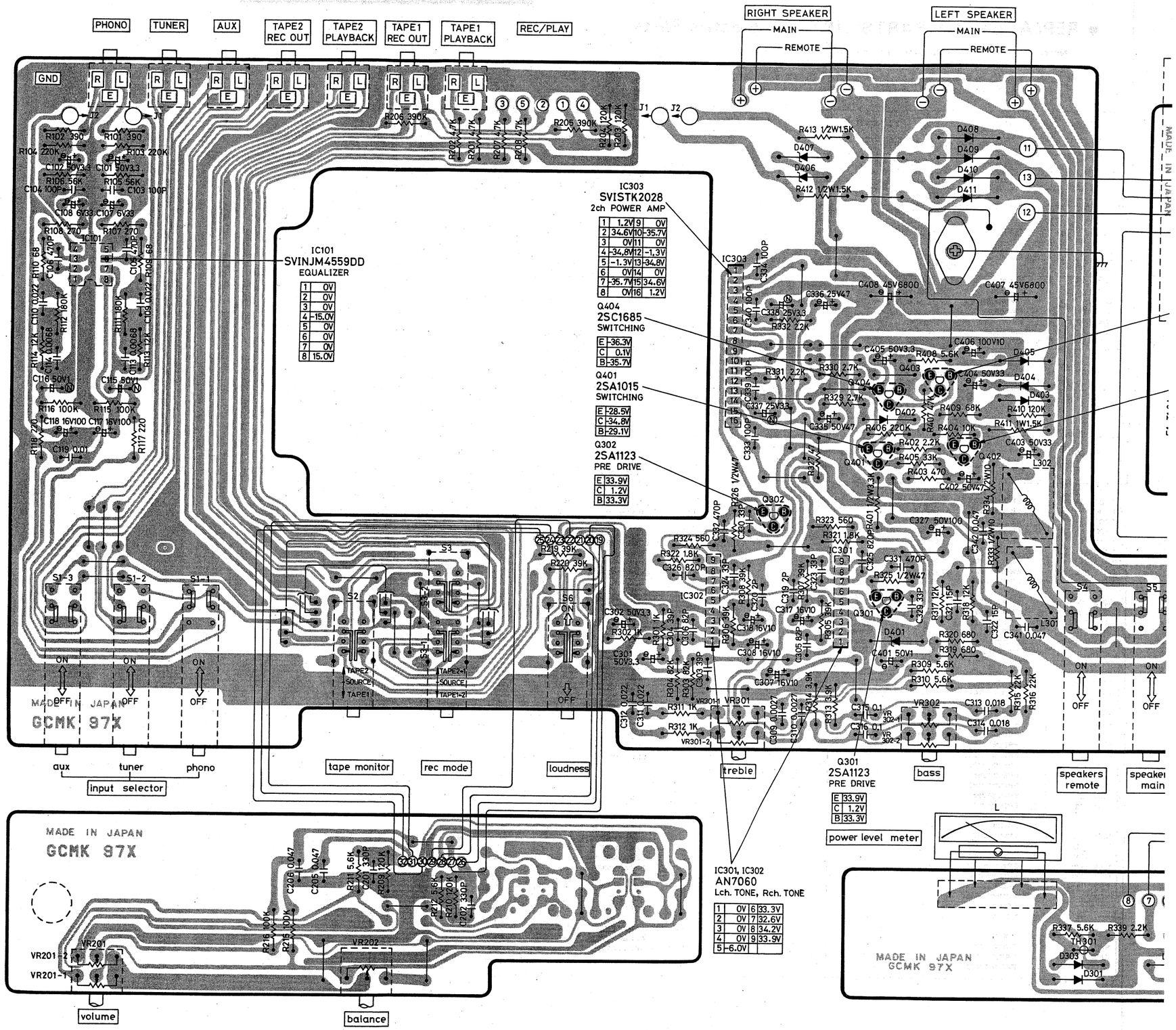
   240V ⇔ 220V ⇔ 110V ⇔ 120V
8. **S10:** Power source switch in **"on"** position.
9. ☐ Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
10. ▬▶ Signal lines of left channel
    ▬▶ Positive (⊕) voltage lines
11. ⚠ indicates that only parts specified by the manufacturer be used for safety.

■ PRINTED CIRCUIT BOARD WIRING VIEW

Ground (Earth) lines



TAPE2 REC OUT
TAPE2 PLAYBACK
TAPE1 REC OUT
TAPE1 PLAYBACK
REC/PLAY
RIGHT SPEAKER
MAIN
REMOTE
LEFT SPEAKER
MAIN
REMOTE
T1 POWER TRANSFORMER
GCMK 97X
MADE IN JAPAN
J1
J2
J3
IC101
SVINJM4559DD
EQUALIZER

1	0V
2	0V
3	0V
4	-15.0V
5	0V
6	0V
7	0V
8	15.0V

IC303
SVISTK2028
2ch POWER AMP

1	1.2V	9	0V
2	34.6V	10	-35.7V
3	0V	11	0V
4	-34.8V	12	-1.3V
5	-1.3V	13	-34.8V
6	0V	14	0V
7	-35.7V	15	34.6V
8	0V	16	1.2V

Q404
2SC1685
SWITCHING

E	-36.3V
C	0.1V
B	-35.7V

Q401
2SA1015
SWITCHING

E	-28.5V
C	-34.8V
B	-29.1V

Q302
2SA1123
PRE DRIVE

E	33.9V
C	1.2V
B	33.3V

Q403
2SA1015
SWITCHING

E	0.7V
C	-35.7V
B	0.1V

Q402
2SA1015
SWITCHING

E	0V
C	-32.6V
B	0V

F1 T1.6A
F2 T800mA
S9
VOLTAGE ADJUSTER
BRN
BRN
power source switch
S10
AC LINE
120/110/220/240V
50/60Hz
S1
S2
S3
S4
S5
S6
TAPE2 SOURCE TAPE1
TAPE1 SOURCE TAPE2
ON
OFF
tape monitor
rec mode
loudness
balance
treble
bass
speakers remote
speakers main
phones
Q301
2SA1123
PRE DRIVE

E	33.9V
C	1.2V
B	33.3V

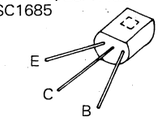
power level meter
power level meter
L
R
IC301, IC302
AN7060
Lch. TONE, Rch. TONE

1	0V	6	33.3V
2	0V	7	32.6V
3	0V	8	34.2V
4	0V	9	33.9V
5	-6.0V		

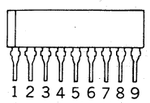
MADE IN JAPAN
GCMK 97X

● **Terminal guide of transistors and IC's**

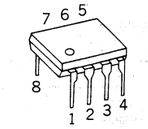
2SA1015, 2SA1123
2SC1685



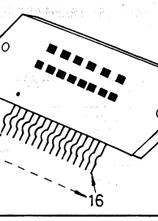
AN7060



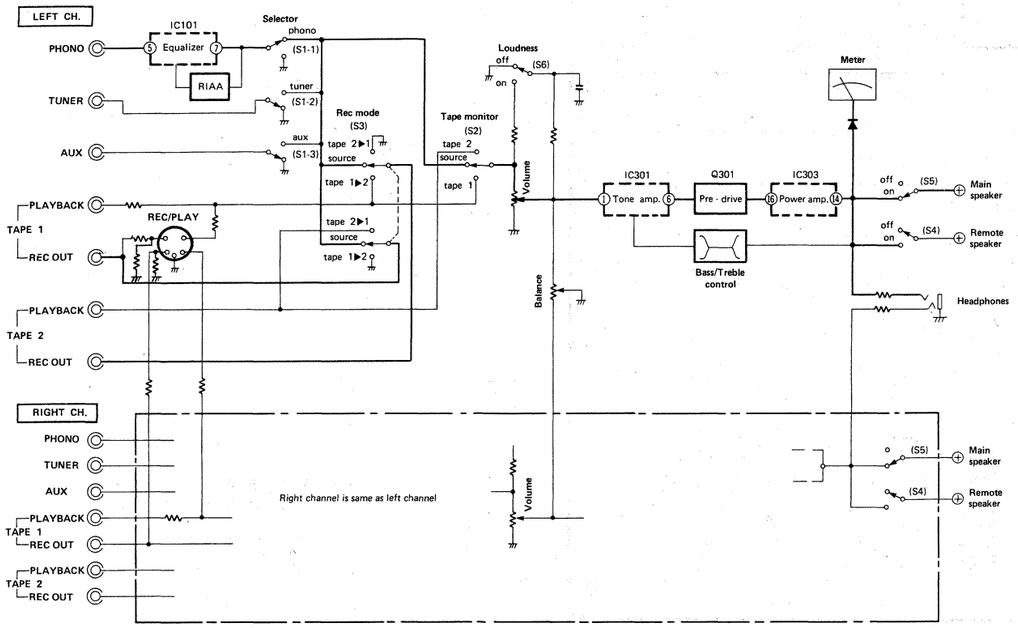
SVINJM4559DD



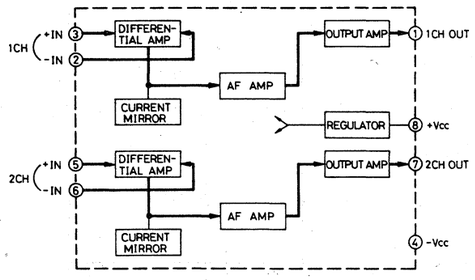
SVISTK2028



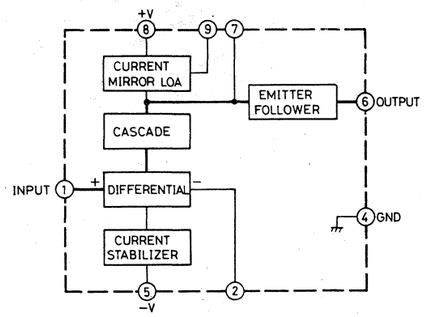
■ BLOCK DIAGRAM



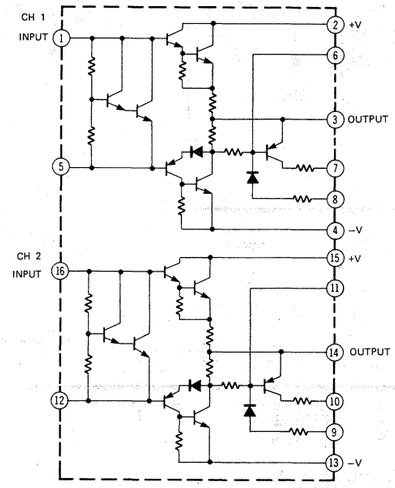
● Block diagram of IC's



IC101 (SVINJM4559DD) Equalizer



IC301 (AN7060) Tone amp.



IC303 (SVISTK2028) Power Amp

■ REPLACEMENT PARTS LIST ····· Electric Parts

Notes: 1. Part numbers are indicated on most mechanical parts
Please use this part number for parts orders
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC101		SVINJM4559–DD	IC, Equalizer Amplifier
IC301, 302		AN7060F	IC, Tone Amplifier
IC303		SVISTK2028	IC, Power Amplifier
TRANSISTORS			
Q301, 302		2SA1123–R	Transistor, Pre Drive Amplifier (Use in ranks R, S or T)
Q401, 402, 403		2SA1015–Y	Transistor, Power ON/OFF Muting (Use in ranks Y or O)
Q404		2SC1685–T	Transistor, Switching (Use in ranks S or T)
DIODES			
D301, 302		**20A90**	Diode, Meter Detector
D303, 304		**2–0A99**	Diode, Meter Detector
D401		**RVDRD6R2EB**	Diode, 6.2V Zener
D402, 403		**MA162A**	Diode, Switching
D404, 405	⚠	**SVDSR1K2**	Rectifier
D406, 407		**MA1150A**	Diode, 15V Zener
D408 ~ 411	⚠	SVDS2V20	Rectifier
COILS and TRANSFORMER			
L301, 302		SLQY15G–3P	Coil, Power Output
T1	⚠	SLT5N345	Transformer, Power Source

Ref. No.		Part No.	Part Name & Description
FUSES			
F1	⚠	XBA2C16TRO	Fuse, T1.6A (250V)
F2	⚠	XBA2C08TRO	Fuse, T800mA (250V)
SWITCHES			
S1		SSH379	Switch, Input Selector
S2		SSL169	Switch, Tape Monitor
S3		SSL171	Switch, Recording Mode
S4, 5		SSH277	Switch, Speakers
S6		SSL167	Switch, Loudness
S9	⚠	ESE37200	Switch, Voltage Adjuster
S10	⚠	ESL21227S	Switch, Power Source
VARIABLE RESISTORS			
VR201		EWJFHA066BF5	Volume Control, 250kΩ (B)
VR202		EVHHMA531G25	Balance Control, 200kΩ (G)
VR301		EWJFC0066C15	Treble Control, 100kΩ (C)
VR302		EWJFCY066530	Bass Control
THERMISTORS			
TH301, 302		ERTD2ZHL332S	Thermistor, 3.3kΩ

Ref. No.		Part No.	Part Name & Description
RESISTORS			
R101, 102		**ERD25FJ391**	Carbon, 390Ω, 1/4W, ±5%
R103, 104		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ±5%
R105, 106		**ERD25TJ563**	Carbon, 56kΩ, 1/4W, ±5%
R107, 108		**ERD25FJ271**	Carbon, 270Ω, 1/4W, ±5%
R109, 110		**ERD25FJ680**	Carbon, 68Ω, 1/4W, ±5%
R111, 112		**ERD25TJ184**	Carbon, 180kΩ, 1/4W, ±5%
R113, 114		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ±5%
R115, 116		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ±5%
R117, 118		**ERD25FJ221**	Carbon, 220Ω, 1/4W, ±5%
R201, 202		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ±5%
R203, 204		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ±5%
R205, 206		**ERD25TJ394**	Carbon, 390kΩ, 1/4W, ±5%
R207, 208		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ±5%
R209, 210		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ±5%
R211, 212		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ±5%
R215, 216		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ±5%
R219, 220		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ±5%
R301, 302		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ±5%
R303, 304		**ERD25TJ823**	Carbon, 82kΩ, 1/4W, ±5%
R305, 306		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ±5%
R307, 308		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ±5%
R309, 310		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ±5%
R311, 312		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ±5%
R313, 314		**ERD25FJ392**	Carbon, 3.9kΩ, 1/4W, ±5%
R315, 316		**ERD25TJ223**	Carbon, 22kΩ, 1/4W, ±5%
R317, 318		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ±5%
R319, 320		**ERD25FJ681**	Carbon, 680Ω, 1/4W, ±5%
R321, 322		**ERD25FJ182**	Carbon, 1.8kΩ, 1/4W, ±5%
R323, 324		**ERD25FJ561**	Carbon, 560Ω, 1/4W, ±5%
R325, 326	⚠	**ERD25FJ470**	Carbon, 47Ω, 1/4W, ±5%
R327	⚠	**ERD25FJ470**	Carbon, 47Ω, 1/4W, ±5%
R329, 330		**ERD25FJ272**	Carbon, 2.7kΩ, 1/4W, ±5%
R331, 332		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ±5%
R333, 334	⚠	**ERD50FJ100**	Carbon, 10Ω, 1/2W, ±5%
R335, 336		**ERG1ANJ331**	Metal Oxide, 330Ω, 1W, ±5%
R337, 338		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ±5%
R339, 340		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ±5%
R401		**ERD50FJ332**	Carbon, 3.3kΩ, 1/2W, ±5%
R402		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ±5%
R403		**ERD25FJ471**	Carbon, 470Ω, 1/4W, ±5%
R404		**ERD25FJ103**	Carbon, 10kΩ, 1/4W, ±5%
R405		**ERD25TJ333**	Carbon, 33kΩ, 1/4W, ±5%
R406		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ±5%
R407		**ERD25TJ473**	Carbon, 47kΩ, 1/4W, ±5%

Ref. No.		Part No.	Part Name & Description
R408		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ±5%
R409		**ERD25TJ683**	Carbon, 68kΩ, 1/4W, ±5%
R410		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ±5%
R411		**ERG1ANJ152**	Metal Oxide, 1.5kΩ, 1W, ±5%
R412, 413		**ERD50FJ152**	Carbon, 1.5kΩ, 1/2W, ±5%
CAPACITORS			
C101, 102		**ECEA50M3R3R**	Electrolytic, 3.3μF, 50V
C103, 104		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C105, 106		ECKD1H471KB	Ceramic, 470pF, 50V, ±10%
C107, 108		**ECEA1CS330**	Electrolytic, 33μF, 16V
C109, 110		ECQM1H223KZ	Polyester, 0.022μF, 50V, ±10%
C113, 114		ECQM1H682KZ	Polyester, 0.0068μF, 50V, ±10%
C115, 116		**ECEA50N1**	Non-Polar Electrolytic, 1μF, 50V
C117, 118		**ECEA1ES101**	Electrolytic, 100μF, 25V
C119		ECKD1H103ZF	Ceramic, 0.01μF, 50V, +80% −20%
C201, 202		ECKD1H331KB	Ceramic, 330pF, 50V, ±10%
C205, 206		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C301, 302		**ECEA50M3R3R**	Electrolytic, 3.3μF, 50V
C303, 304		ECCD1H390K	Ceramic, 39pF, 50V, ±10%
C305, 306		ECCD1H820K	Ceramic, 82pF, 50V, ±10%
C307, 308		**ECEA1HS100**	Electrolytic, 10μF, 50V
C309, 310		ECQM1H272KZ	Polyester, 0.0027μF, 50V, ±10%
C311, 312		ECQM1H223KZ	Polyester, 0.022μF, 50V, ±10%
C313, 314		ECQM1H183KZ	Polyester, 0.018μF, 50V, ±10%
C315, 316		ECQM1H104KZ	Polyester, 0.1μF, 50V, ±10%
C317, 318		**ECEA1HS100**	Electrolytic, 10μF, 50V
C319, 320		ECCD1H020C	Ceramic, 2pF, 50V, ±0.25pF
C321, 322		ECCD1H150K	Ceramic, 15pF, 50V, ±10%
C323, 324		ECCD1H330K	Ceramic, 33pF, 50V, ±10%
C325, 326		ECKD1H821KB	Ceramic, 820pF, 50V, ±10%
C327		**ECEA1HS101**	Electrolytic, 100μF, 50V
C329, 330		ECCD1H330K	Ceramic, 33pF, 50V, ±10%
C331, 332		ECKD1H471KB	Ceramic, 470pF, 50V, ±10%
C333, 334		ECCD1H101K	Ceramic, 100pF 50V, ±10%
C335, 336		**ECEA1HS470**	Electrolytic, 47μF, 50V
C337, 338	⚠	**ECEA25N3R3**	Non-Polar Electrolytic, 3.3μF, 25V
C339, 340		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C341, 342		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C401		**ECEA50Z1**	Electrolytic, 1μF, 50V
C402		**ECEA1HS470**	Electrolytic, 47μF, 50V
C403, 404		**ECEA1JS330**	Electrolytic, 33μF, 63V
C405		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C406		**ECEA2AS100**	Electrolytic, 10μF, 100V
C407, 408		ECETS45V682U	Electrolytic, 6800μF, 45V